

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:**

Kroliczek et al.

**Serial No.:** 10/676,265

**Filed:** October 2, 2003

**For:** EVAPORATOR FOR A HEAT TRANSFER SYSTEM

**Confirmation No.:** 3460

**Examiner:** L. Ciric

**Group Art Unit:** 3744

**Attorney Docket No.:** 2507-8637.1US  
(22235-US-07)

VIA ELECTRONIC FILING

JUNE 17, 2009

**RESPONSE TO OFFICE COMMUNICATION REGARDING PREVIOUSLY SUBMITTED INFORMATION DISCLOSURE STATEMENTS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Communication dated May 29, 2009, requesting certain publication information for the non-patent literature references listed in several of Applicants' previously submitted Information Disclosure Statements, Applicants submit the following:

1. The Examiner states that the Information Disclosure Statements filed December 3, 2004 and July 27, 2005 do not comply with 37 CFR 1.98(b) because "the place of publication for one or more of the Non-Patent Literature documents/publications" is not included. Attached hereto as Exhibits A and B are all pages containing non-patent literature documents from the Information Disclosure Statements filed December 3, 2004 and July 27, 2005, respectively. For

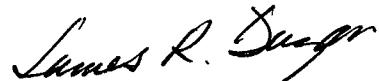
each non-patent literature document previously lacking a place of publication, the same has been inserted at the end of the listing.

2. The Examiner further states that the Information Disclosure Statement filed September 25, 2008 does not comply with 37 CFR 1.98(b) because "the publisher and the place of publication are not listed for the Non-Patent Literature document/publication . . ." Attached hereto as Exhibit C is the page containing the non-patent literature document from the Information Disclosure Statement filed September 25, 2008. The publisher and the place of publication have been inserted at the end of the non-patent literature document.

3. The Examiner also states that the Information Disclosure Statement filed February 5, 2009 is alleged to be out of compliance with 37 CFR 1.98(b) because "the date of publication, the publisher, and the place of publication are not listed for the Non-Patent Literature document/publication . . ." Attached hereto as Exhibit D is the page containing the non-patent literature document from the Information Disclosure Statement filed February 5, 2009. The date of publication, publisher, and the place of publication have been inserted at the end of the non-patent literature document.

This document is filed within one (1) month of the date of the Office Communication. The Examiner is respectfully requested to contact Applicants' undersigned attorney if additional information is needed.

Respectfully submitted,



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Date: June 17, 2009  
JRD/ps:lmh  
Attachments: Exhibits A through D

EXHIBIT A  
REVISED IDS OF DECEMBER 3, 2004

O I P E  
Substitute Form PTO-1449  
(Modified)  
2004U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
13442-009001Application No.  
10/676,265Information Disclosure Statement  
by Applicant  
(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Edward J. Kroliczek et al.Filing Date  
October 2, 2003Group Art Unit  
3743

## U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	3,490,718	01/20/1970	A. Vary			
	AB	3,613,778	10/19/1971	Feldman, Jr.			
	AC	4,046,190	09/06/1977	Marcus et al.			
	AD	4,087,893	05/09/1978	Sata et al.			
	AE	4,116,266	09/26/1978	Sawata et al.			
	AF	4,170,262	10/09/1979	Marcus et al.			
	AG	4,503,483	03/05/1985	Basiulis			
	AH	4,685,512	08/11/1987	Edelstein et al.			
	AI	4,770,238	09/13/1988	Owen			
	AJ	4,830,718	05/16/1989	Stauffer			
	AK	4,883,116	11/28/1989	Seidenberg et al.			
	AL	5,002,122	03/26/1991	Sarraf et al.			
	AM	5,335,720	08/09/1994	Ogushi et al.			
	AN	5,642,776	07/01/1997	Meyer, IV et al.			
	AO	5,725,049	03/10/1989	Swanson et al.			
	AP	5,761,037	06/02/1998	Anderson et al.			
	AQ	5,771,967	06/30/1998	Hyman			
	AR	5,944,092	08/31/1999	Van Oost			

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Abstract	
							Yes	No
	AS	0 987 509 A1	03/22/2000	EUROPE				
	AT	2000-055577	02/25/2000	JAPAN			X	

## Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AU	W. B. Bienert et al., "The Proof-Of-Feasibility of Multiple Evaporator Loop Heat Pipes", 6 <sup>th</sup> European Symposium on Environmental Systems, May 1997, 6 pages, Noordwijk, NL.

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13442-009001	Application No. 10/676,265
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Edward J. Kroliczek et al.	
		Filing Date October 2, 2003	Group Art Unit 3743
(37 CFR §1.98(b))			

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document	
	AV	S. Yun et al., "Design and Test Results of Multi-Evaporator Loop Heat Pipes", SAE Paper No. 1999-01-2051, 29 <sup>th</sup> International Conference on Environmental Systems, July 1999, 7 pages. Denver, CO.	
	AW	Stephane Van Oost et al., "Test Results of Reliable and Very High Capillary Multi-Evaporators/Condenser Loop", 25 <sup>th</sup> International Conference on Environmental Systems, July 10-13, 1995, 12 pages. San Diego, CA.	
	AX	E. Yu Kotlyarov et al., "Methods of Increase of the Evaporators Reliability for Loop Heat Pipes and Capillary Pumped Loops", 24th International Conference on Environmental Systems, June 20-23, 1994, 15 pages. Friedrichshafen, Germany.	
	AY	Hoang, "Advanced Capillary Pumped Loop (A-CPL) Project Summary" Contract No.: NAS5-98103, March 1994, pages 1-37. TTH Research, Inc., Laurel, MD.	
	AZ	Martien Janssen et al., "Measurement and application of performance characteristics of a Free Piston Stirling Cooler", 9 <sup>th</sup> International Refrigeration and Air Conditioning Conference, July 16-19, 2002, 8 pages. Purdue University, West Lafayette, IN.	
	AAA	Yong-Rak Kwon et al., "Operational Characteristics of Stirling Machinery", International Congress of Refrigeration, August 17-22, 2003, 8 pages. Washington, DC.	
	ABB	David M. Berchowitz et al., "Design and Testing of a 40 W Free-Piston Stirling Cycle Cooling Unit", 20 <sup>th</sup> International Conference of Refrigeration, IIR/IIF, Sydney, 1999, 7 pages. Australia.	
	ACC	D.M. Berchowitz Ph. D., "Maximized Performance of Stirling Cycle Refrigerators", Natural working fluids '98 IIR - Gustav Lorentzen Conference: Oslo, Norway, June 2-5, 1998, Fluides actifs naturels conference IIF-Gustav Lorentzen, Journal: Science et technique du froid, 1998 (4) 422-429.	
	ADD	David M. Berchowitz, "Free-Piston Rankine Compression and Stirling Cycle Machines for Domestic Refrigeration", Presented at the Greenpeace Ozon Safe Conference, Washington, DC, October 18-19, 1993.	
	AEE	Stephen C. Wetty and Fernando Cueva, "Energy Efficient Freezer Installation Using Natural Working Fluids and a Free Piston Stirling Cooler" VI Congreso Iberoamericano De Aire Acondicionado Y Refrigeracion, CIAR 2001, Trabajo No. 96, pp. 199-208, August 15-17, 2001. Buenos Aires, AR	
	AFF	Emre Oguz et al., "Experimental Investigation Of a Stirling Cycle Cooled Domestic Refrigerator", 9 <sup>th</sup> Proceedings of the International Refrigeration and Air Conditioning Conference at Purdue, 2002; 9 <sup>th</sup> ; Vol. 2, pp. 777-784. West Lafayette, IN.	
	AGG	Seon-Young Kim et al., "The Application of Stirling Cooler to Refrigeration", IECEC-97-Intersociety Energy Conversion Engineering Conference, 1997, Conference 32, Vol. 2, pp. 1023-1026. Seoul, Korea	
	AHH	D.M. Berchowitz et al. "Recent Advances in Stirling Cycle Refrigeration", 1995, 19 <sup>th</sup> International Conference of Refrigeration, The Hague, The Netherlands, 8 pages.	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

EXHIBIT B  
REVISED IDS OF JULY 27, 2005

Substitute Form PTO-1449 (Mediated)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13442-009001	Application No. 10/676,265
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.86(b))		Applicant Edward J. Kroliczek et al.	
		Filing Date October 2, 2003	Group Art Unit 3743

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document	
	AW	"A high power spacecraft thermal management system," J. Ku, et al., AIAA-1988-2702, Thermophysics, Plasmadynamics and Lasers Conference, San Antonio, TX, June 27-29, 1988, 12 pages	
	AX	"Across-Gimbal and Miniaturized Cryogenic Loop Heat Pipes," Bugby, D. et al., CP654, Space Technology and Applications International Forum-STAF 2003, edited by M.S. El-Genk, American Institute of Physics, 2003, pages 218-226, Albuquerque, New Mexico.	
	AY	"Advanced Components for Cryogenic Integration," Bugby, D. et al., Cryocoolers 12, edited by R.G. Ross, Jr., Kluwer Academic/Plenum Publishers, 2003, pages 693-708, New York.	
	AZ	"Advanced Components for Cryogenic Integration," D. Bugby et al., Proceedings of the 12th International Cryocooler Conference, held June 18-20, 2002, in Cambridge MA., 15 pages	
	AAA	"Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., Environmental systems-International conference; 31st, SOCIETY OF AUTOMOTIVE ENGINEERS NEW YORK, 2001-01-2378, Orlando, FL 2001; Jul (200107), 9 pages	
	ABB	"Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., presented at 2002 Spacecraft Thermal Control Symposium by Swales Aerospace, El Segundo, CA, March, 2002, 14 pages	
	ACC	"An Improved High Power Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 19th Intersociety Conference on Environment Systems, SAE 891566, San Diego, CA, July 24-27, 1989, 10 pages	
	ADD	"Design and Experimental Results of the HPCPL," Van Oost et al., ESTEC CPL-96 Workshop, Noordwijk, Netherlands, 1996, 29 pages	
	AEE	"Design and Test of a Proof-of-Concept Advanced Capillary Pumped Loop," Triem T. Hoang, Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972326, 6 pages	
	AFF	"Design and Testing of a High Power Spacecraft Thermal Management System," McCabe, Jr., Michael E. et al., National Aeronautics and Space Administration (NASA), NASA Technical Memorandum 4051, Scientific and Technical Information Division, 1988, 107 pages, Washington,	DC.
	AGG	"Development and Testing of a Gimbal Thermal Transport System," D. Bugby et al., Proceedings of the 11th International Cryocooler Conference, held June 20-22, 2000, in Keystone, Colorado, 11 pages	
	AHH	"Development of a Cryogenic Loop Heat Pipe (CLHP) for Passive Optical Bench Cooling Applications," James Yun, et al., 32nd International Conference on Environmental Systems (ICES-2002), Society of Automotive Engineers Paper No. 2002-01-2507, San Antonio, Texas, 2002, 9 pages	
	AII	"Development of an Advanced Capillary Pumped Loop," Triem T. Hoang et al., Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972325, 6 pages	
	AJJ	"Development of Advanced Cryogenic Integration Solutions," D. Bugby et al., presented at the 10th International Cryocoolers Conference on May 26-28, 1998 in Monterey, CA and published in "Cryocoolers 10," by Ron Ross, Jr., Kluwer Academic/Plenum Publishers, NY 1999, 17 pages	
	AKK	"Hydrogen Loop Pipe Design & Test Results," O'Connell et al., presented at 2002 Spacecraft Thermal Control Symposium by TTH Research, El Segundo, CA, March 2002, 14 pages	
	ALL	"Multiple Evaporator Loop Heat Pipe," James Yun, et al., Society of Automotive Engineers, 2000-01-2410, 30th International Conference on Environmental Systems, July 10-13, 2000, 10 pages, Toulouse, France	

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13442-009001	Application No. 10/676,265
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Edward J. Kroliczek et al.	
		Filing Date October 2, 2003	Group Art Unit 3743
(37 CFR §1.98(b))			

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	AMM	"Recent Advances in Capillary Pumped Loop Technology," J. Ku, 1997 National Heat Transfer Conference, Baltimore, MD, August 10-12, 1997, AIAA 97-3870, 22 pages
	ANN	"Testing of a Capillary Pumped Loop with Multiple parallel starter pumps," J. Ku et al, SAE Paper No. 972329, 1997, Lake Tahoe, Nevada.
	AOO	"The Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 18th Intersociety Conference on Environmental Systems, SAE 881083, San Francisco, CA, July 11-13, 1988, 11 pages

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

EXHIBIT C  
REVISED IDS OF SEPTEMBER 25, 2008

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

		Application Number		10676265	
		Filing Date		2003-10-02	
		First Named Inventor		Edward J. Kroliczek	
		Art Unit		3744	
		Examiner Name		L. Ciric	
		Attorney Docket Number		2507-8637.1US (22235-US-0)	

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> <sup>1</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	19941398	DE		2000-08-31	Mitsubishi Electric Corp.		<input type="checkbox"/>
	2	03054469	WO		2003-07-03	TTH Research, Inc.		<input type="checkbox"/>
	3	2004031675	WO		2008-09-18	Swales & Associates, Inc.		<input type="checkbox"/>
	4	2004040218	WO		2004-05-13	Swales & Associates, Inc.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	European Search Report for Application No. EP 04 01 6584 dated May 15, 2006, 4 pages, European Patent Office, The Hague, Netherlands.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

EXHIBIT D  
REVISED IDS OF FEBRUARY 5, 2009

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

( Not for submission under 37 CFR 1.99 )

Application Number	10676265
Filing Date	2003-10-02
First Named Inventor	Kroliczek et al.
Art Unit	3744
Examiner Name	L. Ciric
Attorney Docket Number	2507-8637.1US(22235-US-07)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Russian Office Action for related Russian Application No. 2005116246, issued October 9, 2008, Federal Institute of Industrial Property, Moscow, Russian Federation.	<input checked="" type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.